

**ABSTRACT**

The invention relates to an arrangement for utilizing small-grained oilseeds, preferably rapeseed, without the need for prior processing of the seeds such as expressing the oil, in which a pressure of at least 2 bar is maintained in the combustion space (2) of a combustion chamber (1). In this combustion space, an oil or gas burner (8) is provided, which preheats the combustion space (2) to a temperature of at least c. 1000° C, causing the initial seeds fed into the combustion space (2) through a feed line (3) to ignite, if the required combustion air is supplied at the same time through a combustion air supply line (6). The seeds fed in subsequently through the feed line burn explosively in a chain reaction if the combustion air is supplied in controlled amounts, and if the required pressure is maintained in the combustion space. The resulting flame exits through a flame exit opening (9) and can be used for heating purposes.